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 IBM Technical Disclosure Bulletins

Term:

sorge and L8

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END OF SEARCH HISTORY

=> d his

(FILE 'HOME' ENTERED AT 18:08:59 ON 17 FEB 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 18:09:32 ON 17 FEB 2002

SEA POLYMERAS? AND ACTIVIT? AND (IMPROV? OR ENHANC?) AND THERMO

3 FILE AGRICOLA
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L1 QUE POLYMERAS? AND ACTIVIT? AND (IMPROV? OR ENHANC?) AND THERMO

FILE 'USPATFULL, DGENE, BIOTECHDS, BIOSIS, CAPLUS, BIOTECHNO, EMBASE, MEDLINE, SCISEARCH, ESBIODBASE, LIFESCI, WPIDS, IFIPAT' ENTERED AT 18:13:50 ON 17 FEB 2002

L2 1510 S POLYMERAS? AND ACTIVIT? AND (IMPROV? OR ENHANC?) AND THERMOPH
L3 1369 DUP REM L2 (141 DUPLICATES REMOVED)
L4 1348 S L3 AND DNA?
L5 153 S L4 AND FURIOS?

Trying 3106016892...Open

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Sep 17 IMSworld Pharmaceutical Company Directory name change
to PHARMASEARCH
NEWS 3 Oct 09 Korean abstracts now included in Derwent World Patents
Index
NEWS 4 Oct 09 Number of Derwent World Patents Index updates increased
NEWS 5 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS 6 Oct 22 Over 1 million reactions added to CASREACT
NEWS 7 Oct 22 DGENE GETSIM has been improved
NEWS 8 Oct 29 AAASD no longer available
NEWS 9 Nov 19 New Search Capabilities USPATFULL and USPAT2
NEWS 10 Nov 19 TOXCENTER(SM) - new toxicology file now available on STN
NEWS 11 Nov 29 COPPERLIT now available on STN
NEWS 12 Nov 29 DWPI revisions to NTIS and US Provisional Numbers
NEWS 13 Nov 30 Files VETU and VETB to have open access
NEWS 14 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 15 Dec 10 DGENE BLAST Homology Search
NEWS 16 Dec 17 WELDASEARCH now available on STN
NEWS 17 Dec 17 STANDARDS now available on STN
NEWS 18 Dec 17 New fields for DPCI
NEWS 19 Dec 19 CAS Roles modified
NEWS 20 Dec 19 1907-1946 data and page images added to CA and Cplus
NEWS 21 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web
NEWS 22 Jan 25 Searching with the P indicator for Preparations
NEWS 23 Jan 29 FSTA has been reloaded and moves to weekly updates
NEWS 24 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update
frequency

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
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=> index bioscience medicine

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST ENTRY SESSION
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INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'

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64 FILES IN THE FILE LIST IN STNINDEX

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=> s polymeras? and activit? and (improv? or enhanc?) and thermoph?

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29 FILES SEARCHED...

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60 FILES SEARCHED...

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32 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L1 QUE POLYMERAS? AND ACTIVIT? AND (IMPROV? OR ENHANC?) AND THERMOPH?

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=> file f1-15

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=> s polymeras? and activit? and (improv? or enhanc?) and thermoph?
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L2 1510 POLYMERAS? AND ACTIVIT? AND (IMPROV? OR ENHANC?) AND THERMOPH?

=> dup rem l2

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ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING IS APPROXIMATELY 59% COMPLETE FOR L2

PROCESSING COMPLETED FOR L2

L3 1369 DUP REM L2 (141 DUPLICATES REMOVED)

=> s l3 and DNA?

1 FILES SEARCHED...

12 FILES SEARCHED...

L4 1348 L3 AND DNA?

=> s l4 and furios?

L5 153 L4 AND FURIOS?

=> d ti 1-153 15

L5 ANSWER 1 OF 153 USPATFULL

TI Methods for characterizing polymorphisms

L5 ANSWER 2 OF 153 USPATFULL

TI Methods for recombining nucleic acids

L5 ANSWER 3 OF 153 USPATFULL

TI Methods for isolation of **thermophile** promoters

L5 ANSWER 4 OF 153 USPATFULL

TI ISOLATION AND IDENTIFICATION OF NOVEL **POLYMERASES**

L5 ANSWER 5 OF 153 USPATFULL

TI Method of sequencing a nucleic acid

L5 ANSWER 6 OF 153 USPATFULL

TI Detection of single nucleotide polymorphisms

L5 ANSWER 7 OF 153 USPATFULL

TI Use of multiple recombination sites with unique specificity in
recombinational cloning

L5 ANSWER 8 OF 153 USPATFULL

TI Parallel genotyping of multiple patient samples

L5 ANSWER 9 OF 153 USPATFULL

TI Methods and kits for characterizing GC-rich nucleic acid sequences

L5 ANSWER 10 OF 153 USPATFULL
 TI Dideoxynucleotide-triphosphate utilization by the hyper-
thermophilic DNA polymerase from the
 archaeon *Pyrococcus furiosus*

L5 ANSWER 11 OF 153 USPATFULL
 TI Methods for identifying **polymerase enhancing** factor
 (PEF)

L5 ANSWER 12 OF 153 USPATFULL
 TI Cold sensitive mutant **DNA polymerases** and methods of
 use thereof

L5 ANSWER 13 OF 153 USPATFULL
 TI **DNA polymerase**-related factors

L5 ANSWER 14 OF 153 USPATFULL
 TI Methods for generating polynucleotides having desired characteristics by
 iterative selection and recombination

L5 ANSWER 15 OF 153 USPATFULL
 TI Stable compositions for nucleic acid amplification and sequencing

L5 ANSWER 16 OF 153 USPATFULL
 TI Nucleic acids encoding cold sensitive mutant **DNA**
polymerases

L5 ANSWER 17 OF 153 USPATFULL
 TI Method for enrichment of unique **DNA** fragments through cyclical
 removal of PCR adapter attached to **DNA** fragments whose
 sequences are shared between two **DNA** pools

L5 ANSWER 18 OF 153 USPATFULL
 TI Nucleic acid detection

L5 ANSWER 19 OF 153 USPATFULL
 TI **Polymerases** for analyzing or typing polymorphic nucleic acid
 fragments and uses thereof

L5 ANSWER 20 OF 153 USPATFULL
 TI Detection of nucleic acid hybrids

L5 ANSWER 21 OF 153 USPATFULL
 TI Method of producing saccharide preparations

L5 ANSWER 22 OF 153 USPATFULL
 TI Method for amplifying and detecting of target nucleic acid sequence
 using thermostable enzyme

L5 ANSWER 23 OF 153 USPATFULL
 TI Generation and amplification of nucleic acids from ribonucleic acids

L5 ANSWER 24 OF 153 USPATFULL
 TI Nucleic acid-free thermostable enzymes and methods of production thereof

L5 ANSWER 25 OF 153 USPATFULL
 TI Thermostable peptidase

L5 ANSWER 26 OF 153 USPATFULL
 TI *Thermus* promoters for gene expression

L5 ANSWER 27 OF 153 USPATFULL
TI Methods for generating polynucleotides having desired characteristics by iterative selection and recombination

L5 ANSWER 28 OF 153 USPATFULL
TI Purified thermostable pyrococcus **furiosus** DNA ligase

L5 ANSWER 29 OF 153 USPATFULL
TI Amplifying and detecting target nucleic acids using a post amplification incubation step

L5 ANSWER 30 OF 153 USPATFULL
TI Recombinational cloning using nucleic acids having recombination sites

L5 ANSWER 31 OF 153 USPATFULL
TI Deploymerization method for nucleic acid detection of an amplified nucleic acid target

L5 ANSWER 32 OF 153 USPATFULL
TI Method and compositions for **improved** polynucleotide synthesis

L5 ANSWER 33 OF 153 USPATFULL
TI Method of sequencing a nucleic acid

L5 ANSWER 34 OF 153 USPATFULL
TI Exogenous nucleic acid detection

L5 ANSWER 35 OF 153 USPATFULL
TI Multiplex method for nucleic acid detection

L5 ANSWER 36 OF 153 USPATFULL
TI Ultrathermostable protease genes

L5 ANSWER 37 OF 153 USPATFULL
TI Method to clone mRNAs

L5 ANSWER 38 OF 153 USPATFULL
TI Use of extremely **thermophilic DNA-polymerases**

L5 ANSWER 39 OF 153 USPATFULL
TI Nucleic acid-free thermostable enzymes and methods of production thereof

L5 ANSWER 40 OF 153 USPATFULL
TI Detection of nucleic acid hybrids

L5 ANSWER 41 OF 153 USPATFULL
TI Human respiratory syncytial virus peptides with antifusogenic and antiviral **activities**

L5 ANSWER 42 OF 153 USPATFULL
TI Kit for amplifying nucleic acid

L5 ANSWER 43 OF 153 USPATFULL
TI **DNA polymerase**-related factors

L5 ANSWER 44 OF 153 USPATFULL
TI Cold sensitive mutant **DNA polymerases**

L5 ANSWER 45 OF 153 USPATFULL
TI **DNA** encoding a thermostable **DNA polymerase**

L5 ANSWER 46 OF 153 USPATFULL

TI Method for reversible modification of thermostable enzymes

L5 ANSWER 47 OF 153 USPATFULL

TI **Polymerase enhancing** factor (PEF) extracts PEF protein complexes isolated PEF proteins and methods for purifying and identifying same

L5 ANSWER 48 OF 153 USPATFULL

TI Methods for generating polynucleotides having desired characteristics by iterative selection and recombination

L5 ANSWER 49 OF 153 USPATFULL

TI Functionalized pyrimidine nucleosides and nucleotides and **DNA**'s incorporating same

L5 ANSWER 50 OF 153 USPATFULL

TI Diagnostic compositions, elements, methods and test kits for amplification and detection of two or more target **DNA**'s using primers having matched melting temperatures

L5 ANSWER 51 OF 153 USPATFULL

TI Methods for generating polynucleotides having desired characteristics by iterative selection and recombination

L5 ANSWER 52 OF 153 USPATFULL

TI **DNA** encoding a thermostable **DNA polymerase**

L5 ANSWER 53 OF 153 USPATFULL

TI Methods and compositions for cloning nucleic acid molecules

L5 ANSWER 54 OF 153 USPATFULL

TI Method of producing saccharide preparations

L5 ANSWER 55 OF 153 USPATFULL

TI Thermostable **polymerase**

L5 ANSWER 56 OF 153 USPATFULL

TI Method of producing saccharide preparations

L5 ANSWER 57 OF 153 USPATFULL

TI Methods for generating polynucleotides having desired characteristics by iterative selection and recombination

L5 ANSWER 58 OF 153 USPATFULL

TI Purified **DNA polymerase** from bacillus stearothermophilus ATCC 12980

L5 ANSWER 59 OF 153 USPATFULL

TI Cleavage agents

L5 ANSWER 60 OF 153 USPATFULL

TI **Thermophilic DNA polymerases** from Thermotoga neapolitana

L5 ANSWER 61 OF 153 USPATFULL

TI Purified **DNA polymerase** from Bacillus stearothermophilus

L5 ANSWER 62 OF 153 USPATFULL

TI Methods of amplification using a thermostable **DNA polymerase** from the hyperthermophilic archaeon strain KOD1 and reagent kit therefor

L5 ANSWER 63 OF 153 USPATFULL
 TI Desulfurococcus amylopullulanase

L5 ANSWER 64 OF 153 USPATFULL
 TI Thermostable **DNA polymerase** from a hyperthermophilic archaeon strain KOD1

L5 ANSWER 65 OF 153 USPATFULL
 TI Method for identification of mutations using ligation of multiple oligonucleotide probes

L5 ANSWER 66 OF 153 USPATFULL
 TI Modified thermostable **DNA polymerase** derived from pyrococcus sp. KOD and **DNA polymerase** composition thereof for nucleic acid amplification

L5 ANSWER 67 OF 153 USPATFULL
 TI **Thermophilic DNA polymerases** from thermotoga neapolitana

L5 ANSWER 68 OF 153 USPATFULL
 TI Detection of nucleic acid sequences by invader-directed cleavage

L5 ANSWER 69 OF 153 USPATFULL
 TI Amplification and detection of HIV-1 and/or HIV 2

L5 ANSWER 70 OF 153 USPATFULL
 TI Detection of nucleic acids by multiple sequential invasive cleavages

L5 ANSWER 71 OF 153 USPATFULL
 TI Invasive cleavage of nucleic acids

L5 ANSWER 72 OF 153 USPATFULL
 TI Method for amplifying and detecting of target nucleic acid sequence using thermostable enzyme

L5 ANSWER 73 OF 153 USPATFULL
 TI Methods and compositions for use in high fidelity **polymerase** chain reaction

L5 ANSWER 74 OF 153 USPATFULL
 TI Use of centrifugation to prepare a retractable seal over reagents in a reaction container

L5 ANSWER 75 OF 153 USPATFULL
 TI Isolation and identification of **polymerases**

L5 ANSWER 76 OF 153 USPATFULL
 TI Purified thermostable pyrococcus **furiosus DNA polymerase I**

L5 ANSWER 77 OF 153 USPATFULL
 TI Circular site-directed mutagenesis

L5 ANSWER 78 OF 153 USPATFULL
 TI Process for direct sequencing during template amplification

L5 ANSWER 79 OF 153 USPATFULL
 TI Rapid detection and identification of nucleic acid variants

L5 ANSWER 80 OF 153 USPATFULL
 TI Purified **DNA polymerase** from Bacillus stearothermophilus ATTC 12980

L5 ANSWER 81 OF 153 USPATFULL
 TI Method of site-specific nucleic acid cleavage

L5 ANSWER 82 OF 153 USPATFULL
 TI Purified thermostable pyrococcus **furiosus** DNA
polymerase I

L5 ANSWER 83 OF 153 USPATFULL
 TI Nucleic acid-free thermostable enzymes and methods of production thereof

L5 ANSWER 84 OF 153 USPATFULL
 TI Detection of nucleic acid sequences by invader-directed cleavage

L5 ANSWER 85 OF 153 USPATFULL
 TI Cleavage of nucleic acid acid using thermostable methoanococcus
 jannaschii FEN-1 endonucleases

L5 ANSWER 86 OF 153 USPATFULL
 TI Rapid detection of mutations in the p53 gene

L5 ANSWER 87 OF 153 USPATFULL
 TI Detection of target nucleic acid molecules using thermostable 5'
 nuclease

L5 ANSWER 88 OF 153 USPATFULL
 TI Diagnostic compositions, elements, methods and test kits for
 amplification and detection of two or more **DNA**'s using primers
 having matched melting temperatures

L5 ANSWER 89 OF 153 USPATFULL
 TI Synthesis-deficient thermostable **DNA** polymerase

L5 ANSWER 90 OF 153 USPATFULL
 TI Circular site-directed mutagenesis

L5 ANSWER 91 OF 153 USPATFULL
 TI Treatment and detection of tuberculosis, leprosy, and related diseases

L5 ANSWER 92 OF 153 USPATFULL
 TI Method for suppressing **DNA** fragment amplification during PCR

L5 ANSWER 93 OF 153 USPATFULL
 TI Diagnostic compositions, elements, methods and test kits for
 amplification and detection of two or more **DNA**'s using primers
 having matched melting temperatures

L5 ANSWER 94 OF 153 USPATFULL
 TI Cleavase fragment length polymorphism

L5 ANSWER 95 OF 153 USPATFULL
 TI Diagnostic compositions, elements, methods and test kits for
 amplification and detection of two or more **DNA**'s using primers
 having matched melting temperatures

L5 ANSWER 96 OF 153 USPATFULL
 TI Purified thermostable pyrococcus furiosus **DNA** ligase

L5 ANSWER 97 OF 153 USPATFULL
 TI Reagents and methods for coupled high temperature reverse transcription
 and **polymerase** chain reactions

L5 ANSWER 98 OF 153 USPATFULL

TI Detection of target nucleic acid molecules using synthesis-deficient thermostable **DNA polymerase**

L5 ANSWER 99 OF 153 USPATFULL

TI Rapid method for preferential coamplification of two different nucleic acid sequences using **polymerase** chain reaction

L5 ANSWER 100 OF 153 USPATFULL

TI Diagnostic primers and probes

L5 ANSWER 101 OF 153 USPATFULL

TI Method and probes for identifying bacteria found in blood

L5 ANSWER 102 OF 153 USPATFULL

TI Methods and reagents for detection of bacteria in cerebrospinal fluid

L5 ANSWER 103 OF 153 USPATFULL

TI 5' nucleases derived from thermostable **DNA polymerase**

L5 ANSWER 104 OF 153 USPATFULL

TI **DNA polymerase** having modified nucleotide binding site for **DNA** sequencing

L5 ANSWER 105 OF 153 USPATFULL

TI Nucleic acid modifying proteins from *Pyrococcus furiosus*

L5 ANSWER 106 OF 153 USPATFULL

TI Purified *Thermococcus barossii* **DNA polymerase**

L5 ANSWER 107 OF 153 USPATFULL

TI Thermostable **polymerase** specific antibody-containing **DNA** amplification composition and kit

L5 ANSWER 108 OF 153 USPATFULL

TI Methods for capture and selective release of nucleic acids using weakly basic polymer and amplification of same

L5 ANSWER 109 OF 153 USPATFULL

TI Method for suppressing **DNA** fragment amplification during PCR

L5 ANSWER 110 OF 153 USPATFULL

TI Homogeneous method for assay of double-stranded nucleic acids using fluorescent dyes and kit useful therein

L5 ANSWER 111 OF 153 USPATFULL

TI Methods for coupled high temperatures reverse transcription and **polymerase** chain reactions

L5 ANSWER 112 OF 153 USPATFULL

TI Method of amplification using intermediate renaturation step

L5 ANSWER 113 OF 153 USPATFULL

TI Preparation of wax beads containing a reagent using liquid nitrogen for cooling and solidifying

L5 ANSWER 114 OF 153 USPATFULL

TI Purified thermostable *pyrococcus furiosus* **DNA polymerase I**

L5 ANSWER 115 OF 153 USPATFULL

TI Nucleic acid encoding synthesis-deficient thermostable **DNA polymerase**

L5 ANSWER 116 OF 153 USPATFULL
TI Purified thermostable *Pyrococcus furiosus* DNA ligase

L5 ANSWER 117 OF 153 USPATFULL
TI Amplification and detection of nucleic acids in blood samples

L5 ANSWER 118 OF 153 USPATFULL
TI Exonuclease-deficient thermostable *Pyrococcus furiosus* DNA polymerase I

L5 ANSWER 119 OF 153 USPATFULL
TI Thermostable DNA polymerase with enhanced thermostability and enhanced length and efficiency of primer extension

L5 ANSWER 120 OF 153 USPATFULL
TI Method of site specific nucleic acid cleavage

L5 ANSWER 121 OF 153 USPATFULL
TI Diagnostic compositions, elements, methods and test kits for amplification and detection of retroviral DNA using primers having matched melting temperatures

L5 ANSWER 122 OF 153 USPATFULL
TI DNA amplification with thermostable DNA polymerase and polymerase inhibiting antibody

L5 ANSWER 123 OF 153 DGENE COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Chimeric DNA polymerase enzymes that have improved polymerase activity, thermostability and proof-reading properties -

L5 ANSWER 124 OF 153 DGENE COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Chimeric DNA polymerase enzymes that have improved polymerase activity, thermostability and proof-reading properties -

L5 ANSWER 125 OF 153 DGENE COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Chimeric DNA polymerase enzymes that have improved polymerase activity, thermostability and proof-reading properties -

L5 ANSWER 126 OF 153 DGENE COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Chimeric DNA polymerase enzymes that have improved polymerase activity, thermostability and proof-reading properties -

L5 ANSWER 127 OF 153 DGENE COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Chimeric DNA polymerase enzymes that have improved polymerase activity, thermostability and proof-reading properties -

L5 ANSWER 128 OF 153 DGENE COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Chimeric DNA polymerase enzymes that have improved polymerase activity, thermostability and proof-reading properties -

L5 ANSWER 129 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Thermostable polypeptide factors promoting the activity of DNA-polymerase;
recombinant DNA-polymerase-related factor production for use in enhancing DNA synthesis and DNA amplification using DNA-polymerase

L5 ANSWER 130 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Mutant *Pyrococcus furiosus* **DNA-polymerase**;
 production via amino acid replacement; application in **DNA**
 sequencing

L5 ANSWER 131 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI **Polymerase enhancing** factor proteins, extracts and
 complexes;
Pyrococcus furiosus recombinant **polymerase**
enhancing factor production for use in **enhancing**
activity of e.g. **DNA-polymerase**

L5 ANSWER 132 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Characterization of **DNA-polymerase** from *Pyrococcus*
 sp. strain KOD1 and its application to PCR;
 application in an **improved polymerase** chain
 reaction

L5 ANSWER 133 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI An **improved** phage display antibody cloning system using newly
 designed PCR primers optimized for Pfu **DNA-polymerase**
 ;
 recombinant monoclonal antibody production

L5 ANSWER 134 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI **DNA-polymerase** with **enhanced**
 thermostability and **enhanced** length and efficiency of primer
 extension;
Thermus thermophilus, *Thermus flavus* and *Thermus aquaticus*
 thermostable enzyme lacking 3'-exonuclease **activity**
 application with **DNA-polymerase** with
 3'-exonuclease **activity**

L5 ANSWER 135 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Polishing with T4 or Pfu **polymerase** increases the efficiency of
 cloning of PCR fragments;
 phage T4, *Pyrococcus furiosus* **DNA-**
polymerase use in polishing of **polymerase** chain
 reaction-generated fragment

L5 ANSWER 136 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Preliminary characterization of **DNA-polymerases** from
 a range of **thermophilic** microorganisms and bacteriophages;
 thermostable **DNA-polymerase** purification and
 characterization with respect to reverse-transcriptase
activity and thermostability (conference abstract)

L5 ANSWER 137 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Phosphorothioate primers **improve** the amplification of
DNA sequences by **DNA-polymerases** with
 proofreading **activity**;
 thermostable **DNA-polymerase** Vent and Pfu
 application in the **polymerase** chain reaction

L5 ANSWER 138 OF 153 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI Functional interactions of an archaeal sliding clamp with mammalian clamp
 loader and **DNA polymerase** delta.

L5 ANSWER 139 OF 153 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI Three-dimensional electron microscopy of the clamp loader small subunit
 from *Pyrococcus furiosus*.

L5 ANSWER 140 OF 153 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI Mechanism whereby proliferating cell nuclear antigen stimulates flap endonuclease 1.

L5 ANSWER 141 OF 153 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI A heterodimeric **DNA polymerase**: Evidence that members of Euryarchaeota possess a distinct **DNA polymerase**.

L5 ANSWER 142 OF 153 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI Pressure **enhances** thermal stability of **DNA polymerase** from three **thermophilic** organisms.

L5 ANSWER 143 OF 153 CAPLUS COPYRIGHT 2002 ACS
 TI **DNA polymerase** substitution variants or fusion proteins with increased 3'.fwdarw.5' exonuclease **activity** and high fidelity and uses

L5 ANSWER 144 OF 153 CAPLUS COPYRIGHT 2002 ACS
 TI Evolution of PCR enzymes (towards a better PCR system based on a KOD **DNA polymerase**)

L5 ANSWER 145 OF 153 CAPLUS COPYRIGHT 2002 ACS
 TI Oligonucleotide primers and probes for detecting target nucleotide sequences by PCR with **improved** sensitivity

L5 ANSWER 146 OF 153 CAPLUS COPYRIGHT 2002 ACS
 TI High fidelity **polymerases** and uses thereof

L5 ANSWER 147 OF 153 CAPLUS COPYRIGHT 2002 ACS
 TI Reversible modification of thermostable **DNA polymerase** with dicarboxylic acid anhydrides for PCR **improvement**

L5 ANSWER 148 OF 153 CAPLUS COPYRIGHT 2002 ACS
 TI **Thermophilic DNA polymerases** from Thermotoga neapolitana

L5 ANSWER 149 OF 153 CAPLUS COPYRIGHT 2002 ACS
 TI **DNA polymerases** having modified dideoxynucleotide binding site for **DNA** sequencing

L5 ANSWER 150 OF 153 MEDLINE
 TI **Improving** dideoxynucleotide-triphosphate utilisation by the hyper-**thermophilic DNA polymerase** from the archaeon Pyrococcus **furiosus**.

L5 ANSWER 151 OF 153 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI **Improved** polynucleotide synthesis, useful in **DNA/RNA** amplification and analysis in medical research and diagnosis or pathogen detection, involves protecting the 3' end of an oligonucleotide used as a primer in the synthesis.

L5 ANSWER 152 OF 153 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Novel compositions for mutagenizing nucleic acids, comprising thermostable proofreading and non-proofreading **DNA polymerases**, and a factor that inhibits incorporation of undesired nucleotide into **DNA** polymer.

L5 ANSWER 153 OF 153 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Chimeric **DNA polymerase** enzymes that have **improved polymerase activity**, thermostability and proof-reading properties.

=> d 10 11 13 15 28 43 47 66 119 129 134 135 150 152 15

L5 ANSWER 10 OF 153 USPATFULL
AN 2001:235115 USPATFULL
TI Dideoxynucleotide-triphosphate utilization by the hyper-
thermophilic DNA polymerase from the
archaeon *Pyrococcus furiosus*
IN Evans, Steven, Gosforth, United Kingdom
Mamone, Joseph Anthony, Somerset, NJ, United States
Davis, Maria, Princeton, NJ, United States
Connolly, Bernard A., Kingston Park, United Kingdom
PA Amersham Pharmacia Biotech, Inc., Piscataway, NJ, United States (U.S.
corporation)
PI US 6333183 B1 20011225
AI US 2000-715524 20001117 (9)
PRAI US 1999-167066 19991123 (60)
DT Utility
FS GRANTED
LN.CNT 620
INCL INCLM: 435/194.000
INCLS: 435/183.000; 435/320.100; 435/252.300; 435/325.000; 435/091.100;
435/091.200; 530/350.000; 536/023.200
NCL NCLM: 435/194.000
NCLS: 435/091.100; 435/091.200; 435/183.000; 435/252.300; 435/320.100;
435/325.000; 530/350.000; 536/023.200
IC [7]
ICM: C12N009-12
ICS: C12N009-00; C12P019-34; C07K001-00; C07H021-04
EXF 435/194; 435/183; 435/320.1; 435/252.3; 435/325; 435/91.1; 435/91.2;
536/23.2; 530/350
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 11 OF 153 USPATFULL
AN 2001:235098 USPATFULL
TI Methods for identifying **polymerase enhancing** factor
(PEF)
IN Hogrefe, Holly, San Diego, CA, United States
PA Stratagene, La Jolla, CA, United States (U.S. corporation)
PI US 6333165 B1 20011225
AI US 2000-632711 20000804 (9)
RLI Division of Ser. No. US 1997-822774, filed on 21 Mar 1997, now patented,
Pat. No. US 6183997
DT Utility
FS GRANTED
LN.CNT 1989
INCL INCLM: 435/007.400
NCL NCLM: 435/007.400
IC [7]
ICM: G01N033-58
EXF 435/7.4; 536/350
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 13 OF 153 USPATFULL
AN 2001:235091 USPATFULL
TI **DNA polymerase**-related factors
IN Uemori, Takashi, Otsu, Japan
Sato, Yoshimi, Kurita-gun, Japan
Fujita, Tomoko, Takatsuki, Japan
Miyake, Kazue, Uji, Japan
Mukai, Hiroyuki, Moriyama, Japan
Asada, Kiyozo, Koga-gun, Japan
Kato, Ikunoshin, Uji, Japan
PA Takara Shuzo Co., Ltd., Kyoto, Japan (non-U.S. corporation)

PI US 6333158 B1 20011225
AI US 2000-712266 20001115 (9)
RLI Continuation of Ser. No. US 446504, now patented, Pat. No. US 6218150
PRAI JP 1997-187496 19970626
JP 1997-320692 19971127
DT Utility
FS GRANTED
LN.CNT 2960
INCL INCLM: 435/006.000
INCLS: 435/091.100; 435/091.200; 536/022.100; 536/023.100; 424/094.100
NCL NCLM: 435/006.000
NCLS: 424/094.100; 435/091.100; 435/091.200; 536/022.100; 536/023.100
IC [7]
ICM: C12Q001-68
ICS: C12P019-34; C07H021-02; C07H021-04; A61K038-43
EXF 435/6; 435/91.1; 435/91.2; 536/22.1; 536/23.1; 424/94.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 15 OF 153 USPATFULL
AN 2001:205569 USPATFULL
TI Stable compositions for nucleic acid amplification and sequencing
IN Rashtchian, Ayoub, Gaithersburg, MD, United States
Solus, Joseph, Gaithersburg, MD, United States
PI US 2001041334 A1 20011115
AI US 2000-741664 A1 20001221 (9)
RLI Continuation of Ser. No. US 1998-49021, filed on 27 Mar 1998, ABANDONED
Continuation of Ser. No. US 1997-801720, filed on 14 Feb 1997, ABANDONED
Continuation-in-part of Ser. No. US 1996-689815, filed on 14 Aug 1996,
ABANDONED
DT Utility
FS APPLICATION
LN.CNT 1893
INCL INCLM: 435/006.000
INCLS: 435/091.200; 435/194.000; 536/023.100; 530/388.260
NCL NCLM: 435/006.000
NCLS: 435/091.200; 435/194.000; 536/023.100; 530/388.260
IC [7]
ICM: C12Q001-68
ICS: C07H021-02; C12P021-08; C07H021-04; C12P019-34; C12N009-12;
C07K016-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 28 OF 153 USPATFULL
AN 2001:142139 USPATFULL
TI Purified thermostable pyrococcus **furiosus** DNA ligase
IN Mathur, Eric J., Carlsbad, CA, United States
Marsh, Edward J., Del Mar, CA, United States
Schoettlin, Warren E., San Diego, CA, United States
PA Stratagene, La Jolla, CA, United States (U.S. corporation)
PI US 6280998 B1 20010828
AI US 1997-916232 19970822 (8)
RLI Division of Ser. No. US 1992-919140, filed on 23 Jul 1992, now patented,
Pat. No. US 5700672, issued on 23 Dec 1997
DT Utility
FS GRANTED
LN.CNT 1603
INCL INCLM: 435/252.300
INCLS: 435/183.000; 435/320.100; 536/023.100; 536/023.200
NCL NCLM: 435/252.300
NCLS: 435/183.000; 435/320.100; 536/023.100; 536/023.200
IC [7]
ICM: C12N015-52
ICS: C12N009-00; C12N001-21; C12N015-63

EXF 435/183; 435/320.1; 435/252.3; 536/23.2; 536/23.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 43 OF 153 USPATFULL
AN 2001:55726 USPATFULL
TI **DNA polymerase**-related factors
IN Uemori, Takashi, Otsu, Japan
Sato, Yoshimi, Kurita-gun, Japan
Fujita, Tomoko, Takatsuki, Japan
Miyake, Kazue, Uji, Japan
Mukai, Hiroyuki, Moriyama, Japan
Asada, Kiyozo, Koga-gun, Japan
Kato, Ikunoshin, Uji, Japan
PA Takara Shuzo Co., Ltd., Kyoto, Japan (non-U.S. corporation)
PI US 6218150 B1 20010417
WO 9900506 19990107
AI US 1999-446504 19991223 (9)
WO 1998-JP2845 19980624
19991223 PCT 371 date
19991223 PCT 102(e) date
PRAI JP 1997-187496 19970626
JP 1997-320692 19971127
DT Utility
FS Granted
LN.CNT 3025
INCL INCLM: 435/091.100
INCLS: 435/091.100; 435/091.200; 435/006.000; 536/022.100; 536/023.100;
424/094.100
NCL NCLM: 435/091.100
NCLS: 424/094.100; 435/006.000; 435/091.200; 536/022.100; 536/023.100
IC [7]
ICM: C12P019-34
ICS: C12Q001-68; C07H021-04; C07H021-02; A61K037-48
EXF 435/91.1; 435/6; 435/91.2; 536/22.1; 536/23.1; 424/94.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 47 OF 153 USPATFULL
AN 2001:18244 USPATFULL
TI **Polymerase enhancing** factor (PEF) extracts PEF
protein complexes isolated PEF proteins and methods for purifying and
identifying same
IN Hogrefe, Holly, San Diego, CA, United States
PA Stratagene, La Jolla, CA, United States (U.S. corporation)
PI US 6183997 B1 20010206
AI US 1997-822774 19970321 (8)
DT Utility
FS Granted
LN.CNT 2074
INCL INCLM: 435/091.200
INCLS: 536/024.100; 536/023.700
NCL NCLM: 435/091.200
NCLS: 536/023.700; 536/024.100
IC [7]
ICM: C12P019-34
EXF 435/91.2; 536/24.1; 536/23.7
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 66 OF 153 USPATFULL
AN 1999:170418 USPATFULL
TI Modified thermostable **DNA polymerase** derived from
pyrococcus sp. KOD and **DNA polymerase** composition
thereof for nucleic acid amplification
IN Komatsubara, Hideyuki, Tsuruga, Japan

Kitabayashi, Masao, Tsuruga, Japan
Kamimura, Hideki, Tsuruga, Japan
Kawakami, Bunsei, Tsuruga, Japan
Kawamura, Yoshihisa, Tsuruga, Japan
Takagi, Masahiro, Suita, Japan
Imanaka, Tadayuki, Suita, Japan

PA Toyo Boseki Kabushiki Kaisha, Osaka, Japan (non-U.S. corporation)

PI US 6008025 19991228

AI US 1997-902632 19970729 (8)

PRAI JP 1996-198911 19960729

JP 1996-200446 19960730

DT Utility

FS Granted

LN.CNT 2083

INCL INCLM: 435/091.200

INCLS: 435/194.000

NCL NCLM: 435/091.200

NCLS: 435/194.000

IC [6]

ICM: C12P019-34

ICS: C12N009-12

EXF 435/194; 435/91.2; 435/810

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 119 OF 153 USPATFULL

AN 95:67141 USPATFULL

TI Thermostable **DNA polymerase** with **enhanced**
thermostability and **enhanced** length and efficiency of primer
extension

IN Barnes, Wayne M., 223 Renaldo Dr., Chesterfield, MO, United States
63017

PI US 5436149 19950725

AI US 1993-21623 19930219 (8)

DT Utility

FS Granted

LN.CNT 1421

INCL INCLM: 435/194.000

INCLS: 435/091.200; 435/091.500; 935/017.000

NCL NCLM: 435/194.000

NCLS: 435/091.200; 435/091.500

IC [6]

ICM: C12N009-12

ICS: C12N015-54; C12P019-34; C12P019-30

EXF 435/91; 435/194; 435/172..3; 435/252.1; 435/91.1; 435/91.2; 435/91.4;
435/91.5; 435/193; 935/16

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 129 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD

AN 1999-03793 BIOTECHDS

TI Thermostable polypeptide factors promoting the **activity** of
DNA-polymerase;

recombinant **DNA-polymerase**-related factor

production for use in **enhancing DNA** synthesis and

DNA amplification using **DNA-polymerase**

AU Uemori T; Sato Y; Fujita T; Miyake K; Mukai H; Asada K; Kato I

PA Takara-Shuzo

LO Kyoto, Japan.

PI WO 9900506 7 Jan 1999

AI WO 1998-JP2845 24 Jun 1998

PRAI JP 1997-320692 21 Nov 1997; JP 1997-187496 26 Jun 1997

DT Patent

LA Japanese

OS WPI: 1999-095751 [08]

L5 ANSWER 134 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 AN 1995-01821 BIOTECHDS
 TI **DNA-polymerase** with **enhanced**
 thermostability and **enhanced** length and efficiency of primer
 extension;
 Thermus **thermophilus**, Thermus flavus and Thermus aquaticus
 thermostable enzyme lacking 3'-exonuclease **activity**
 application with **DNA-polymerase** with
 3'-exonuclease **activity**
 AU Barnes W M
 PA Barnes W M
 PI WO 9426766 24 Nov 1994
 AI WO 1994-US1867 22 Feb 1994
 PRAI US 1993-21623 19 Feb 1993
 DT Patent
 LA English
 OS WPI: 1995-006692 [01]

L5 ANSWER 135 OF 153 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 AN 1994-09646 BIOTECHDS
 TI Polishing with T4 or Pfu **polymerase** increases the efficiency of
 cloning of PCR fragments;
 phage T4, Pyrococcus **furiosus** **DNA-**
polymerase use in polishing of **polymerase** chin
 reaction-generated fragment
 AU Costa G L; *Weiner M P
 CS Statogene-Cloning-Syst.
 LO Stratagene Cloning Systems, 11099 North Torrey Pines Road, La Jolla, CA
 92037, USA.
 SO Nucleic Acids Res.; (1994) 22, 12, 2423
 CODEN: NARHAD
 DT Journal
 LA English

L5 ANSWER 150 OF 153 MEDLINE
 AN 2000133019 MEDLINE
 DN 20133019 PubMed ID: 10666444
 TI **Improving** dideoxynucleotide-triphosphate utilisation by the
 hyper-**thermophilic DNA polymerase** from the
 archaeon Pyrococcus **furiosus**.
 AU Evans S J; Fogg M J; Mamone A; Davis M; Pearl L H; Connolly B A
 CS Department of Biochemistry and Genetics, The University of Newcastle,
 Newcastle upon Tyne NE2 4HH, UK.
 SO NUCLEIC ACIDS RESEARCH, (2000 Mar 1) 28 (5) 1059-66.
 Journal code: 08L; 0411011. ISSN: 1362-4962.
 CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200004
 ED Entered STN: 20000505
 Last Updated on STN: 20010521
 Entered Medline: 20000424

L5 ANSWER 152 OF 153 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 AN 2001-273584 [28] WPIDS
 DNC C2001-083004
 TI Novel compositions for mutagenizing nucleic acids, comprising thermostable
 proofreading and non-proofreading **DNA polymerases**, and
 a factor that inhibits incorporation of undesired nucleotide into
DNA polymer.
 DC B04 D16

IN BORNS, M C; HOGREFE, H H; MUHICH, M L
 PA (STRA-N) STRATAGENE
 CYC 21
 PI WO 2001025483 A2 20010412 (200128)* EN 48p C12Q001-68
 RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 W: AU CA JP
 AU 2000062396 A 20010510 (200143) C12Q001-68
 ADT WO 2001025483 A2 WO 2000-US20544 20000728; AU 2000062396 A AU 2000-62396
 20000728
 FDT AU 2000062396 A Based on WO 200125483
 PRAI US 1999-414295 19991006
 IC ICM C12Q001-68
 ICS C12N015-10

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INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
 BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
 CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
 DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 18:09:32 ON
 17 FEB 2002

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 2 FILE BIOBUSINESS
 34 FILE BIOSIS
 39 FILE BIOTECHABS
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 1 FILE GENBANK
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 22 FILE SCISEARCH
 9 FILE TOXCENTER
 9 FILE TOXLIT
 1101 FILE USPATFULL
 1 FILE USPAT2
 12 FILE WPIDS
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 MEDLINE, SCISEARCH, ESBIOWASE, LIFESCI, WPIDS, IFIPAT' ENTERED AT

18:13:50 ON 17 FEB 2002

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L4 1348 S L3 AND DNA?
L5 153 S L4 AND FURIOS?

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